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| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | <i>Complete if Known</i> | |
| | | | | Application Number | 10/801,624 |
| | | | | Filing Date | 2004-03-15 |
| | | | | First Named Inventor | KADOUS; Tamer |
| | | | | Art Unit | 2464 |
| | | | | Examiner Name | OVEISSI, David M. |
| Sheet | 1 | of | 3 | Attorney Docket No: 030301 | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|---|-----------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | 001 | US7184713 | 02-27-2007 | KADOUS; Tamer et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
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| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T 6 |
| | | Country Code ³ - Number ⁴ -Kind Code ⁵ (if known) | | | | |
| /D.O./ | 002 | EP1294120A1 | 03-19-2003 | TEXAS INSTRUMENTS INC [US] | | <input type="checkbox"/> |
| /D.O./ | 003 | WO02087088A2 | 10-31-2002 | WISCOM TECHNOLOGIES INC [US] | | <input type="checkbox"/> |
| /D.O./ | 004 | WO2005027355A2 | 03-24-2005 | QUALCOMM INC [US], et al. | | <input type="checkbox"/> |

| NON PATENT LITERATURE DOCUMENTS | | | | |
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| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | T2 |
| /D.O./ | 005 | El-Gamal .H et., "A new approach to layered space-time coding and signal processing," IEEE Transactions on Information Theory, Sept. 2001. | | <input type="checkbox"/> |
| /D.O./ | 006 | EUROPEAN SEARCH REPORT-EP04783748, EUROPEAN PATENT OFFICE- THE HAGUE-2-20-08. | | <input type="checkbox"/> |
| /D.O./ | 007 | FOSCHINI G J: "Layered Space-Time Architecture for Wireless Communication in a Fading Environment when using Multi-Element Antennas" Bell Labs Technical Journal, Wiley, Ca, US, Vol. 1, no. 2, 21 September 1996 (1996-09-21), pages 41-59, XP000656005. | | <input type="checkbox"/> |
| /D.O./ | 008 | INTERNATIONAL SEARCH REPORT-PCT/US04/029648, INTERNATIONAL SEARCH AUTHORITY-UNITED STATES-12-2-05. | | <input type="checkbox"/> |

EXAMINER SIGNATURE /David Oveissi/

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| | | | | First Named Inventor | | KADOUS; Tamer | |
| | | | | Art Unit | | 2464 | |
| | | | | Examiner Name | | OVEISSI, David M. | |
| Sheet | 2 | of | 3 | Attorney Docket No: 030301 | | | |

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| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T2 | |
| /D.O./ | 009 | ONGGOSANUSI E N, et al., "HYBRID ARQ TRANSMISSION AND COMBINING FOR MIMO SYSTEMS" ICC 2003. 2003 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. ANCHORAGE, AK, MAY 11-15, 2003, IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, NY : IEEE, US, VOL. 1(5) pp. 3205-3209. | <input type="checkbox"/> | |
| /D.O./ | 010 | TAIWAN SEARCH REPORT - TW093127311 - TIPO - 2011-03-17 (030301TW) . | <input type="checkbox"/> | |
| /D.O./ | 011 | TAROKH et al., "Space-Time Codes for High Data Rate Wireless Communication: Performance Criterion and Code Construction," IEEE Transactions on Information Theory, Vol.44, No.2, pp.744-765, Mar 1998. | <input type="checkbox"/> | |
| /D.O./ | 012 | Wolniansky, P.W.; Foschini, G.J.; Golden, G.D.; Valenzuela, R.A.; , "V-BLAST: an architecture for realizing very high data rates over the rich-scattering wireless channel," Signals, Systems, and Electronics, 1998. ISSSE 98. 1998 URSI International Symposium, pp.295-300, (29 Sep-2 Oct 1998), doi: 10.1109/ISSSE.1998.738086 . | <input type="checkbox"/> | |
| /D.O./ | 013 | WOO TAE KIM ET AL: " PERFORMANCE OF STBC WITH TURBO CODE IN HARQ SCHEME FOR MOBILE COMMUNICATION SYSTEMS" TELECOMMUNICATIONS, 2003. ICT 2003. 10TH INTERNATIONAL CONFERENCE ON FEB. 23-MAR. 1, 2003, PISCATAWAY, NJ, USA, IEEE, 23 FEBRURAY 2003, PAGES 85-89,. | <input type="checkbox"/> | |
| /D.O./ | 014 | "Written Opinion - PCT/US2004/029648, International Search Authority, European Patent Office, 12/02/2005 (030301).". | <input type="checkbox"/> | |
| /D.O./ | 015 | YONGZHONG ZOU ET AL: "A NOVEL HARQ AND AMC SCHEME USING SPACE-TIME BLOCK CODING AND TURBO CODES FOR WIRELESS PACKET DATA TRANSMISSION" COMMUNICATION TECHNOLOGY PROCEEDINGS, 2003. ICCT 2003. INTERNATIONAL CONFERENCE ON APRIL 9-11, 2003 PISCATAWAY, NJ, USA,. | <input type="checkbox"/> | |

EXAMINER SIGNATURE

/David Oveissi/

DATE CONSIDERED

11/01/2011

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| | | Art Unit | 2464 | |
| | | Examiner Name | OVEISSI, David M. | |
| Sheet | 3 | of | 3 | Attorney Docket No: 030301 |

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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- ☐ See attached certification statement.

- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

- ☒ None

SIGNATURE

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|------------|------------|---------------------|------------|
| Signature | /Peng Zhu/ | Date (YYYY-MM-DD) | 2011-08-18 |
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